

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P953581

Luminaire Tested: **GALN-SB7A-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-830-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21907 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

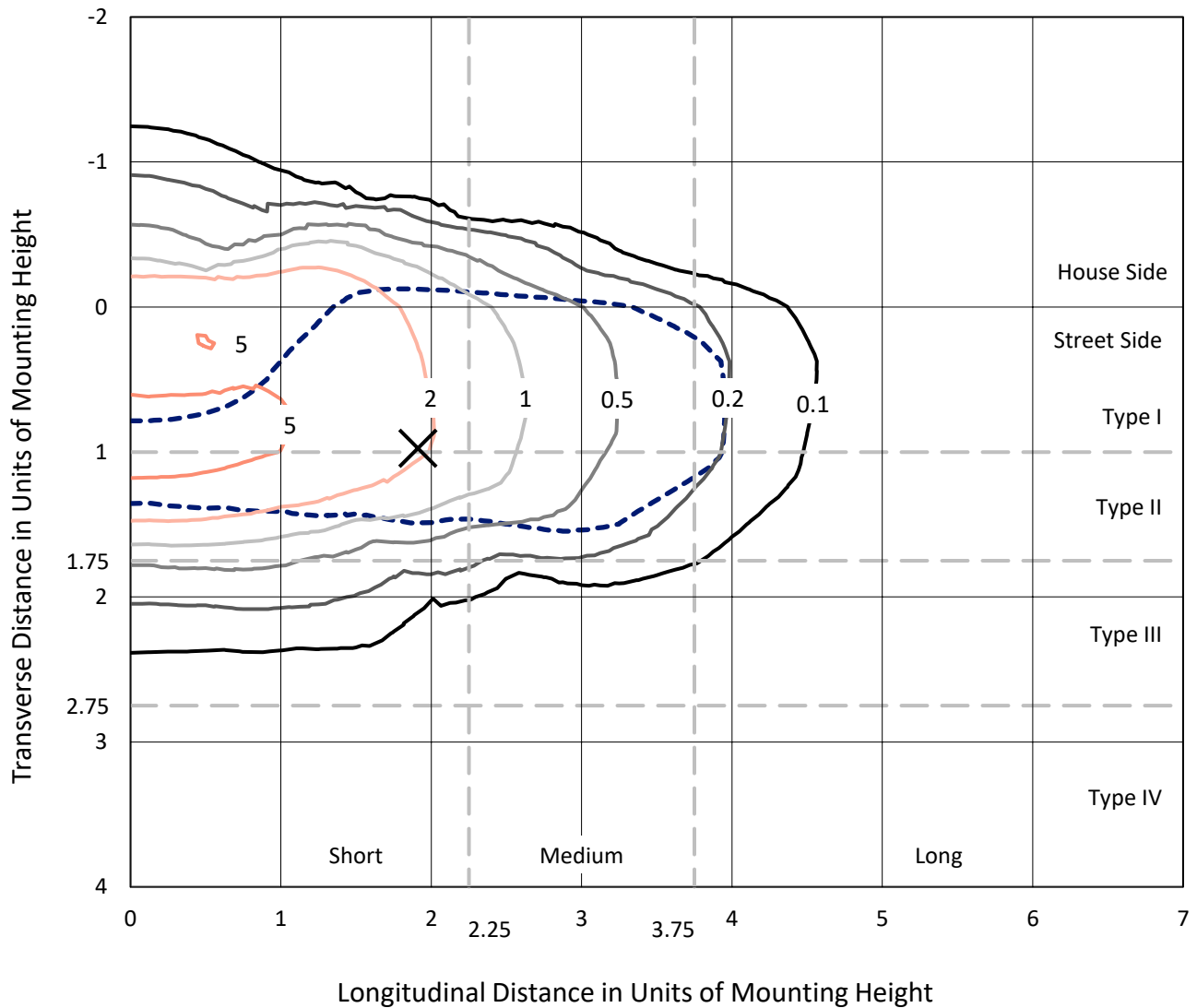
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

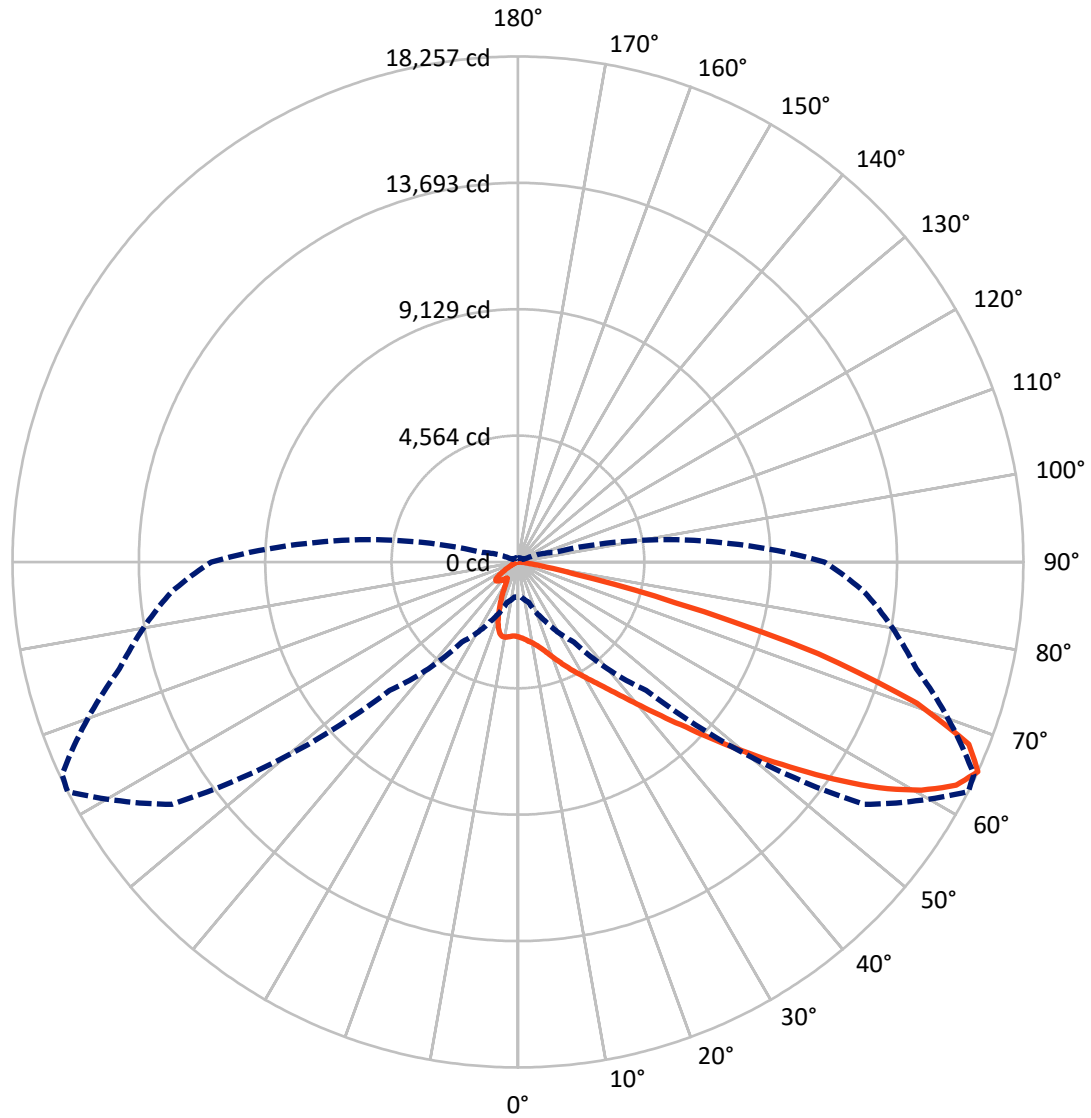
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3220.2	0.0	3220.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	18686.9	0.0	18686.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	21907.0	0.0	21907.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.7	1.2
10°-20°	706.8	3.2
20°-30°	1230.8	5.6
30°-40°	2218.3	10.1
40°-50°	4399.6	20.1
50°-60°	5993.0	27.4
60°-70°	4783.6	21.8
70°-80°	2164.7	9.9
80°-90°	155.6	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21907.0	100.0
0°-180°	21907.0	100.0

Coefficient of Utilization



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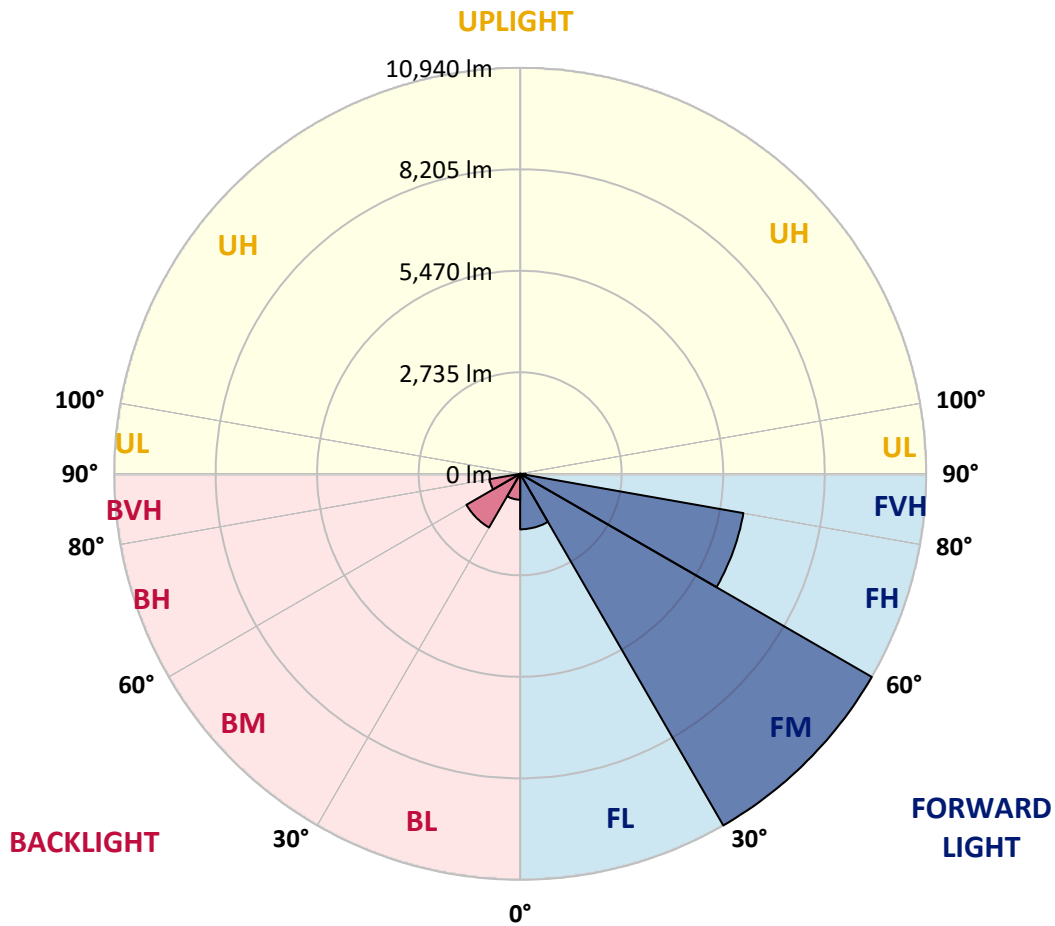
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1495.4	6.8			
FM (30°-60°)	10939.8	49.9			
FH (60°-80°)	6107.6	27.9			G3/7500
FVH (80°-90°)	144.0	0.7			G2/225
BL (0°-30°)	696.9	3.2	B2/1000		
BM (30°-60°)	1671.1	7.6	B2/2500		
BH (60°-80°)	840.7	3.8	B2/1000		G2/1000
BVH (80°-90°)	11.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2703.7	2703.7	2703.7	2703.7	2703.7	2703.7	2703.7	2703.7	2703.7	2703.7
2.5°	2767.0	2759.5	2770.1	2765.5	2762.5	2756.5	2753.5	2750.5	2744.4	2739.9
5°	2774.6	2770.1	2780.6	2789.6	2798.7	2807.7	2812.2	2818.3	2812.2	2800.2
7.5°	2711.3	2708.3	2730.9	2758.0	2798.7	2833.3	2871.0	2892.1	2893.6	2889.1
10°	2706.8	2699.2	2721.8	2755.0	2807.7	2869.5	2935.8	2981.0	2987.1	3006.7
12.5°	2777.6	2770.1	2801.7	2837.9	2892.1	2956.9	3038.3	3101.6	3110.7	3137.8
15°	2896.6	2886.1	2922.3	2969.0	3038.3	3112.2	3198.1	3255.3	3262.9	3296.0
17.5°	3035.3	3024.8	3066.9	3116.7	3192.0	3293.0	3392.5	3455.8	3464.8	3485.9
20°	3213.1	3199.6	3232.7	3277.9	3357.8	3478.4	3597.4	3687.9	3686.4	3686.4
22.5°	3419.6	3398.5	3427.1	3463.3	3538.7	3684.9	3843.1	3950.1	3950.1	3907.9
25°	3641.2	3620.1	3651.7	3684.9	3751.2	3917.0	4102.3	4235.0	4241.0	4168.6
27.5°	3918.5	3891.3	3915.4	3954.6	3993.8	4162.6	4382.6	4536.4	4539.4	4427.9
30°	4452.0	4375.1	4299.8	4257.6	4275.6	4442.9	4678.0	4848.3	4863.4	4709.7
32.5°	5428.6	5413.5	5148.3	4801.6	4620.8	4744.4	5008.1	5213.1	5222.1	5024.7
35°	6946.2	6928.1	6501.6	5841.5	5252.2	5148.3	5409.0	5651.6	5645.6	5422.5
37.5°	8757.8	8741.2	8179.0	7295.9	6341.9	5758.6	5925.9	6180.6	6218.3	5925.9
40°	10305.6	10243.8	9888.1	9036.6	7788.7	6771.4	6661.4	6830.2	6869.4	6522.7
42.5°	11478.1	11425.3	11244.5	10712.5	9539.9	8269.5	7528.0	7592.8	7636.5	7220.5
45°	12085.4	12073.4	12145.7	12096.0	11324.4	10108.1	8766.8	8497.0	8513.6	7993.7
47.5°	12171.3	12165.3	12495.4	12962.6	12858.6	12181.9	10356.8	9624.3	9565.6	8866.3
50°	11665.0	11652.9	12285.9	13161.5	13883.4	13924.1	12162.3	10894.8	10765.2	9769.0
52.5°	10047.8	10044.8	11084.7	12542.1	14243.6	15449.3	13946.7	12290.4	12073.4	10724.5
55°	7731.4	7787.2	8979.3	10701.9	13586.5	16183.2	15548.8	13839.7	13506.6	11686.1
57.5°	5476.8	5558.2	6736.7	8271.0	11548.9	15749.2	16632.4	15392.0	15033.3	12644.6
60°	2941.9	3014.2	4194.3	6025.4	8592.0	14130.6	17203.5	16739.4	16400.3	13554.9
62.5°	1752.8	1776.9	2265.2	3889.8	5811.4	10795.4	16960.9	17765.7	17486.9	14319.0
65°	1258.4	1262.9	1508.6	2375.2	3528.1	6558.9	15259.4	18257.0	18171.1	14894.7
67.5°	1059.5	1056.5	1159.0	1577.9	2403.8	3285.5	11695.1	17562.2	17927.0	15259.4
70°	908.8	913.3	1033.9	1155.9	1807.0	1859.8	5814.4	15291.0	16068.7	15355.8
72.5°	676.7	691.8	803.3	1053.5	1363.9	1279.5	2007.5	11337.9	12744.0	14468.2
75°	477.8	485.3	565.2	886.2	1017.3	931.4	1024.8	5861.1	7663.6	11092.3
77.5°	367.7	381.3	428.0	619.4	1002.2	654.1	627.0	2028.6	3116.7	6700.6
80°	198.9	223.1	309.0	447.6	703.8	462.7	310.5	807.8	1056.5	3133.3
82.5°	102.5	114.5	215.5	322.5	400.9	403.9	153.7	336.1	435.6	967.6
85°	40.7	49.7	144.7	177.8	206.5	198.9	69.3	135.6	156.7	268.3
87.5°	9.0	15.1	52.7	40.7	39.2	42.2	16.6	31.6	30.1	31.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2703.7	0°	2703.7	2703.7	2703.7	2703.7	2703.7	2703.7	2703.7	2703.7	2703.7	2703.7
2721.8	2.5°	2720.3	2714.3	2697.7	2679.6	2658.5	2646.5	2638.9	2637.4	2626.9	2619.3
2782.1	5°	2765.5	2759.5	2727.9	2690.2	2649.5	2617.8	2587.7	2560.6	2521.4	2513.8
2869.5	7.5°	2856.0	2839.4	2788.1	2736.9	2660.0	2568.1	2456.6	2328.5	2213.9	2179.3
2985.6	10°	2967.5	2944.9	2880.1	2789.6	2619.3	2369.2	2099.4	1849.2	1650.3	1594.5
3122.7	12.5°	3094.1	3074.5	2988.6	2821.3	2449.0	1995.4	1582.5	1272.0	1079.1	1030.9
3268.9	15°	3244.8	3216.2	3097.1	2773.1	2144.6	1516.1	1086.6	902.8	833.4	824.4
3436.2	17.5°	3404.5	3357.8	3193.5	2599.7	1734.7	1077.6	839.5	786.7	756.6	747.5
3605.0	20°	3550.7	3490.4	3250.8	2337.5	1296.1	839.5	752.0	717.4	690.3	679.7
3773.8	22.5°	3696.9	3611.0	3250.8	1980.3	972.1	744.5	690.3	658.6	627.0	613.4
3954.6	25°	3849.1	3734.6	3193.5	1582.5	782.2	682.7	631.5	596.8	569.7	553.1
4126.4	27.5°	3996.8	3838.6	3062.4	1205.7	696.3	628.5	577.2	544.1	518.4	506.4
4313.3	30°	4137.0	3941.1	2878.6	914.8	640.5	575.7	527.5	498.9	473.2	461.2
4556.0	32.5°	4326.9	4070.7	2682.6	750.5	592.3	526.0	482.3	455.1	432.5	423.5
4870.9	35°	4590.6	4262.1	2513.8	737.0	551.6	485.3	441.6	416.0	393.4	385.8
5277.9	37.5°	4964.4	4571.0	2424.9	827.4	518.4	449.1	408.4	381.3	360.2	354.2
5794.8	40°	5425.6	4990.0	2473.2	917.8	495.8	417.5	378.3	351.2	333.1	325.5
6388.6	42.5°	5972.6	5506.9	2739.9	987.2	480.8	390.3	349.6	319.5	307.4	304.4
7062.3	45°	6601.1	6075.1	3148.3	1061.0	456.7	364.7	321.0	298.4	289.4	287.9
7794.7	47.5°	7315.5	6699.1	3621.6	1152.9	432.5	340.6	298.4	283.3	275.8	272.8
8558.8	50°	8023.8	7327.5	4108.4	1204.2	412.9	318.0	280.3	268.3	262.2	260.7
9366.6	52.5°	8765.3	7974.1	4501.7	1155.9	396.4	299.9	265.2	256.2	250.2	248.7
10111.1	55°	9472.1	8497.0	4569.5	981.1	363.2	281.8	248.7	244.2	236.6	236.6
10866.2	57.5°	10081.0	8759.3	4090.3	720.4	330.1	254.7	232.1	227.6	221.5	220.0
11547.4	60°	10640.1	8683.9	3157.4	485.3	293.9	227.6	211.0	208.0	202.0	194.4
12139.7	62.5°	10955.1	8352.3	2159.7	316.5	257.7	198.9	186.9	185.4	171.8	156.7
12578.3	65°	11074.2	7671.1	1347.3	230.6	215.5	170.3	161.3	158.2	138.7	122.1
12826.9	67.5°	10970.2	6549.9	679.7	182.4	170.3	141.7	132.6	132.6	119.1	104.0
12811.9	70°	10554.2	4910.1	286.3	146.2	131.1	108.5	108.5	114.5	101.0	84.4
12147.2	72.5°	9651.5	3303.6	152.2	111.5	98.0	76.9	88.9	93.4	79.9	63.3
9942.3	75°	7672.6	2015.0	105.5	82.9	61.8	54.3	67.8	70.8	54.3	42.2
6816.6	77.5°	5247.7	1157.5	70.8	52.7	39.2	31.6	46.7	43.7	28.6	19.6
2628.4	80°	2304.4	482.3	40.7	24.1	15.1	12.1	16.6	12.1	9.0	6.0
360.2	82.5°	269.8	113.0	15.1	9.0	6.0	3.0	1.5	0.0	0.0	0.0
110.0	85°	55.8	13.6	7.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
19.6	87.5°	10.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

180°
2703.7
2626.9
2510.8
2162.7
1573.4
1017.3
815.3
743.0
673.7
605.9
547.1
506.4
462.7
423.5
385.8
352.7
324.0
304.4
286.3
272.8
260.7
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